



***Materialise***  
*innovators you can count on*





# Planning and Control platform for AM

## Case-study: Custom insoles

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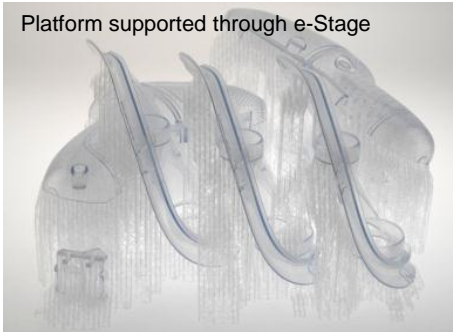
**The challenges of AM are similar to those of traditional technologies**

- Lead-time
- Cost
- Quality



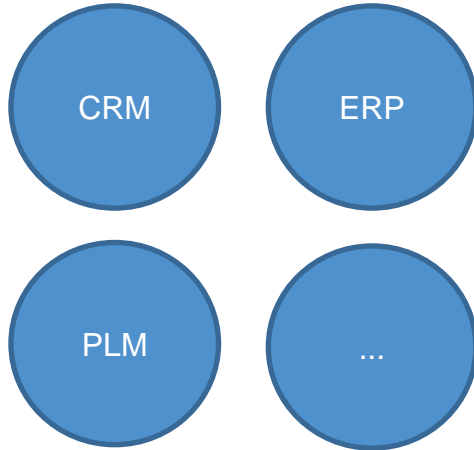
## But the process and possibilities of AM are unique

- Freeform
- Integrated functionality
- Custom

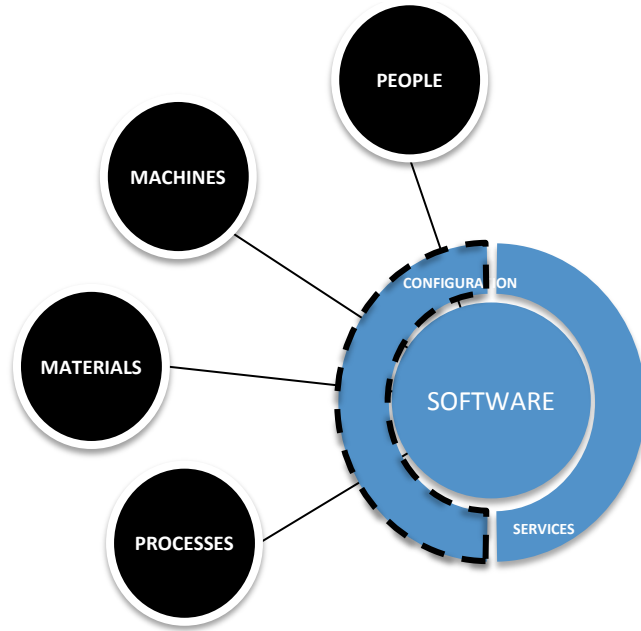


Nesting Density 10% (part interval = 2 mm)

**Complexity comes from custom  
provided part files being  
produced grouped & with a short  
turnover time**



**But due to its uniqueness,  
traditional business software  
systems are not adequate to  
control the AM process**



Based on our in-house experience, we know that there is a need for one central platform system tuned to the AM process



**Streamamics™**  
AM automation & control system



# About Materialise

100 +  
3D printers  
in house



1,000  
+  
employees



400,000  
3D printed  
parts and  
products



16  
offices  
worldwide



8,000  
Installed  
software licenses

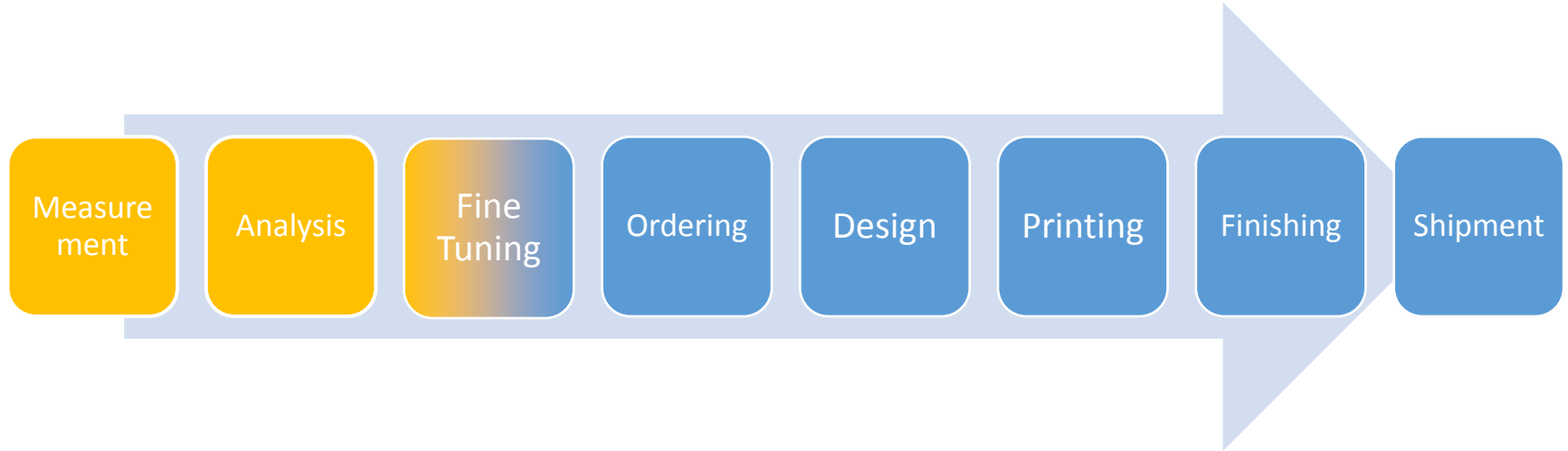
146,000  
3D printed  
medical  
devices



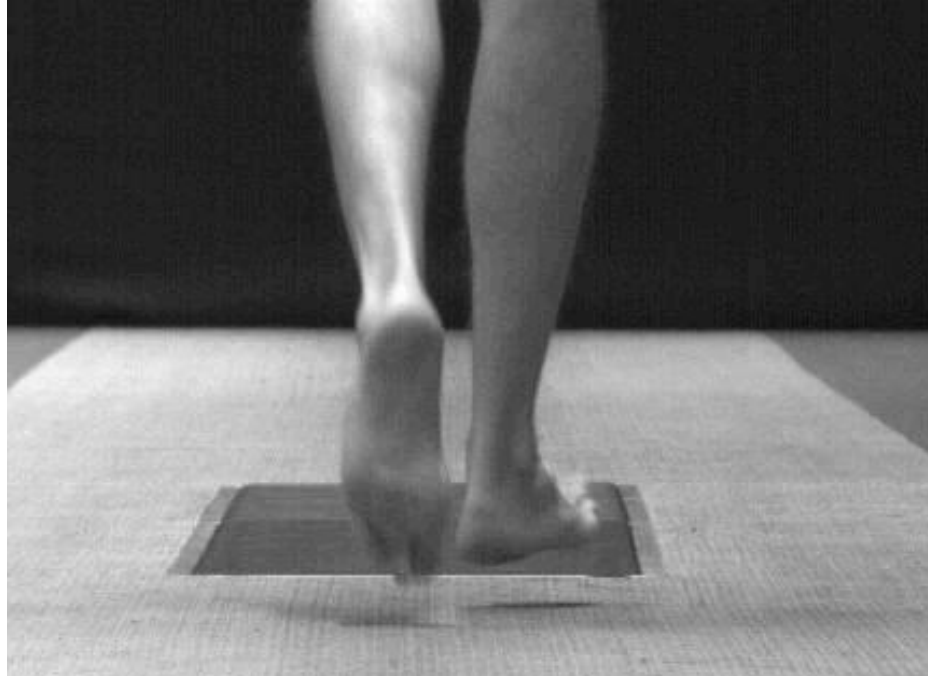
*Supporting your every move.*



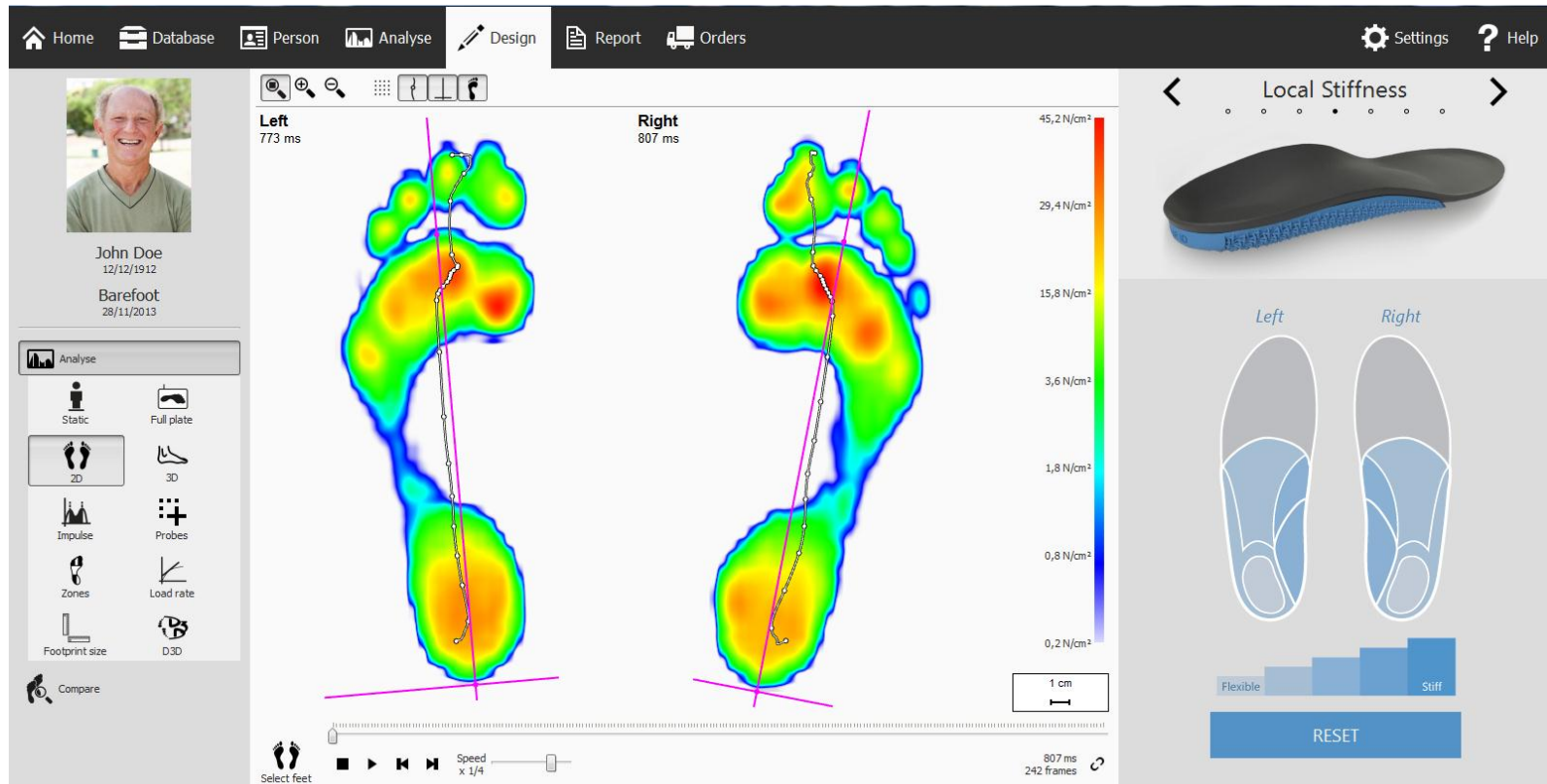
# The process



Measure  
ment



# Fine Tuning





Order intake

Design

Print Prep  
and  
planning

Printing

Finishing

Shipment

## Ordering



John Doe  
12/12/1912

Barefoot  
28/11/2013

**First Name** John

**Ordered By** Jansen Frederik

**Last Name** Doe

**Delivery Address** Select Office ▼

**Gender** ☒ Male ☐ Female

**Est. Shipping Date** 18/02/2015

**Birth Date** 12/12/1912

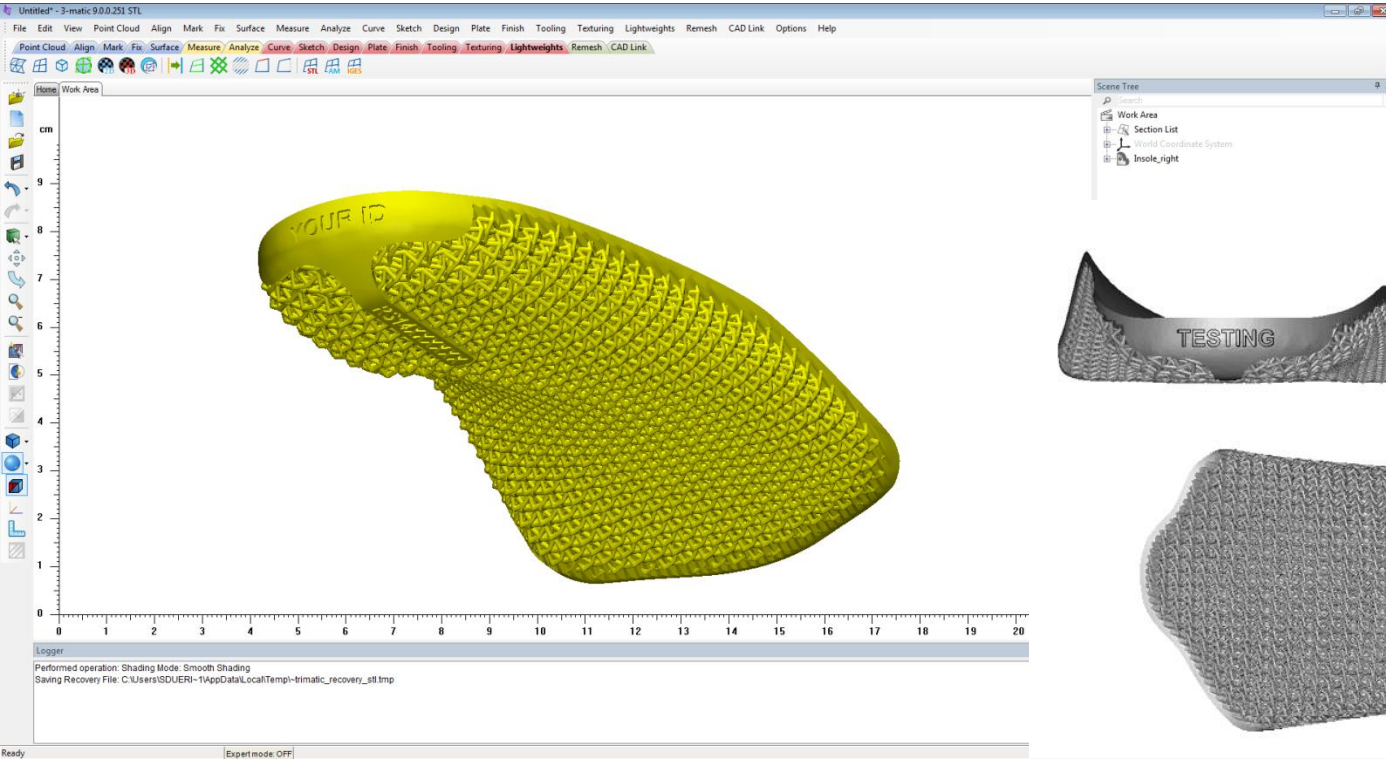
**Remarks**

CANCEL ORDER

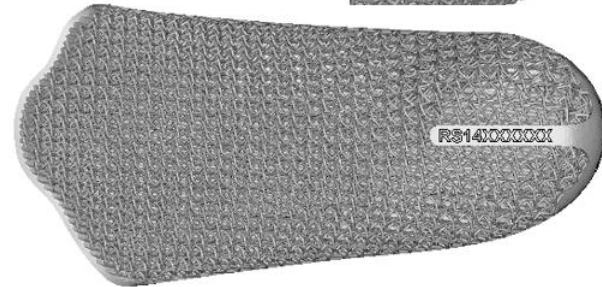
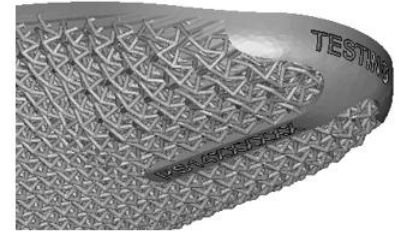
CONFIRM ORDER



# Automated design

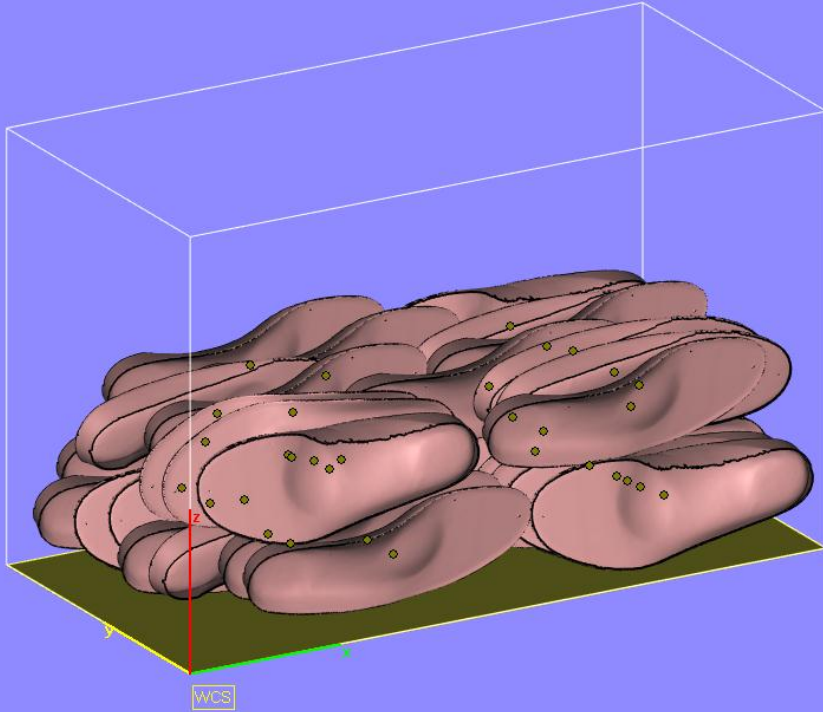


**3-matic<sup>STL</sup>**

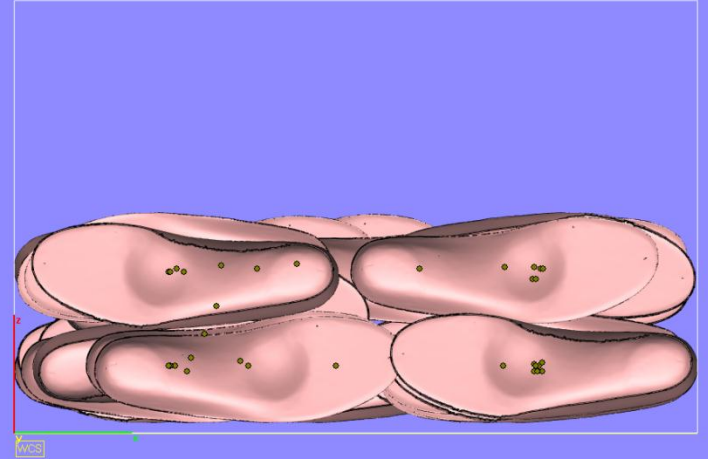




# Build preparation



## *Magics*



# Production

Streamics AM Automation & Control System

WARNING: This version is only to be used for test purposes! \*\* BETA/BUG \*\* WARNING

Home View

New Queue New Order New Subcontract

Open in Magics Download Assign to Me Assign to Through Plan Prepare & Send Build Stop

All Parts Successful Indicate Failed Parts

Order ID	External Order ID	Customer	Status	Build Due Date	Due Date	Price	Created	Created By	Last Modified	Last Modified By
348	8884740-888-4c7b-	Portals	In Preparation	28/04/2015	28/04/2015	1,055.00	22/04/2015 8:40	streamics admin	22/04/2015 8:40	streamics admin
347	78e4d750-a670-488a-	Portals	Build Successfully	28/04/2015	28/04/2015	1,054.00	22/04/2015 8:40	streamics admin	22/04/2015 9:12	Eunjee Lee
346	8532555a-5e0d-443a-	Portals	Build Successfully	28/04/2015	28/04/2015	1,055.00	22/04/2015 8:40	streamics admin	22/04/2015 9:13	Eunjee Lee
345	7027888b-9f9f-47d9-	Portals	Build Successfully	28/04/2015	28/04/2015	1,062.00	22/04/2015 8:40	streamics admin	22/04/2015 9:13	Eunjee Lee
344	67cb28f0-2062-4e0d-	Portals	Planned	28/04/2015	28/04/2015	n/a	22/04/2015 8:40	streamics admin	22/04/2015 9:17	Eunjee Lee

External Part ID: 262908ed-f518-491c-1-Bad

Part Name	Part Quantity	Mass Dimension	Part Status	Technology	Material	Postprocessing Te...	Build Due Date	Due Date		
343	88e750b6-2087-48a7-	Portals	In Preparation	28/04/2015	28/04/2015	1,147.00	22/04/2015 9:08	streamics admin	22/04/2015 9:09	streamics admin
342	4d33d095-6e53-4732-	Portals	In Preparation	28/04/2015	28/04/2015	1,047.00	22/04/2015 9:05	streamics admin	22/04/2015 9:05	streamics admin
341	35d6cd50-2064-6894-	Portals	In Preparation	28/04/2015	28/04/2015	1,048.00	22/04/2015 9:04	streamics admin	22/04/2015 9:05	streamics admin
340	8a0d1063-6586-4380-	Portals	In Preparation	28/04/2015	28/04/2015	n/a	22/04/2015 9:02	streamics admin	22/04/2015 9:03	streamics admin
339	3d89f632-7367-4252-	Portals	In Preparation	28/04/2015	28/04/2015	1,044.00	22/04/2015 9:02	streamics admin	22/04/2015 9:02	streamics admin
338	ca07c945-8d5e-4f9a-	Portals	In Preparation	28/04/2015	28/04/2015	1,043.00	22/04/2015 9:02	streamics admin	22/04/2015 9:02	streamics admin
337	25e8d948-5a2d-42ee-	FreeDForm	In Preparation	22/04/2015 18:34	22/04/2015 18:42	9,015.00	22/04/2015 18:43	Eve Descomps	22/04/2015 18:55	Eve Descomps
336	27b7610f-1810-4762-	FreeDForm	In Preparation	28/04/2015 18:57	22/04/2015 17:01	n/a	18/04/2015 17:01	Lutheia Miron	22/04/2015 12:30	Eve Descomps
335	ca75780c-c083-488e-	Portals	New	20/04/2015	22/04/2015	n/a	18/04/2015 13:08	streamics admin	22/04/2015 10:58	Kerengdeuk Cha
334	d085e6b9-1d39-4d08-	Portals	In Preparation	28/04/2015	28/04/2015	n/a	18/04/2015 13:08	streamics admin	22/04/2015 11:03	Kerengdeuk Cha
333	87735e6b-7a63-42c1-	Portals	In Preparation	23/04/2015 11:09	14/04/2015 11:09	n/a	13/04/2015 11:10	Kerengdeuk Cha	22/04/2015 10:58	Kerengdeuk Cha
332	9984612c-2c27-4a5d-	Portals	In Preparation	23/04/2015 10:18	14/04/2015 10:18	n/a	18/04/2015 10:14	Kerengdeuk Cha	22/04/2015 10:58	Kerengdeuk Cha
331	ade76779-5d5b-48fa-	Portals	New	14/04/2015	14/04/2015	n/a	7/04/2015 11:54	streamics admin	7/04/2015 11:54	streamics admin
330	8d98a920-4340-4a8b-	Portals	New	13/04/2015	14/04/2015	n/a	7/04/2015 11:48	streamics admin	7/04/2015 11:48	streamics admin
329	5d123d5a-2212-4a0e-	Portals	In Preparation	1/04/2015	2/04/2015	n/a	26/03/2015 9:04	streamics admin	27/04/2015 21:52	streamics admin
328	e0b5e04e-7898-4d88-	Materialise Test Sys...	Planned	28/03/2015 10:35	28/03/2015 10:17	87,200.00	18/03/2015 18:17	Raf Van Duyn	28/03/2015 18:21	Raf Van Duyn
327	3a1e136b-3767-4e6b-	M USA	In Preparation	28/03/2015 11:08	28/03/2015 11:08	387.30	18/03/2015 11:08	Lucas Hellemans	28/03/2015 12:28	Kerengdeuk Cha
326	8959e7c0-786d-4a9b-	M USA	In Preparation	28/03/2015 11:06	28/03/2015 11:06	10,000.00	18/03/2015 11:06	Lucas Hellemans	28/03/2015 11:06	streamics admin
325	3558d87b-9f20-4a9b-	M USA	In Preparation	28/03/2015 11:24	18/03/2015 11:24	888.30	18/03/2015 11:24	Lucas Hellemans	28/03/2015 10:20	Kerengdeuk Cha
324	20f6c87b-0d1a-471b-	M USA	In Preparation	28/03/2015 11:34	17/03/2015 11:34	903.30	16/03/2015 11:37	Lucas Hellemans	22/04/2015 10:20	Kerengdeuk Cha
323	ca037368-0c1a-4a67-	Portals	In Preparation	18/03/2015 09:01	14/03/2015 18:16	90.00	18/03/2015 18:16	Christophe Blanc	18/03/2015 09:07	Christophe Blanc
322	H4a7507-7a65-40e1-	WindForm	In Preparation	11/03/2015 10:47	12/03/2015 10:50	289.70	11/03/2015 10:51	Wannes Schuerman	11/03/2015 12:07	Wannes Schuerman
321	4d808580-0278-4d21-	Portals	In Preparation	27/03/2015 11:48	28/03/2015 11:48	81.31	27/03/2015 11:47	Kerengdeuk Cha	17/03/2015 10:18	Lucas Hellemans
320	32397c10-3336-408b-	FreeDForm	Planned	24/02/2015 10:26	20/02/2015 10:26	20.00	24/02/2015 10:26	Kerengdeuk Cha	27/03/2015 7:23	Kerengdeuk Cha
319	4d7850-73ee-42d8-8-	FreeDForm	Planned	11/02/2015 18:08	12/02/2015 18:08	974.86	11/02/2015 18:08	Priyago Mondalini	11/02/2015 18:39	Priyago Mondalini

EOS P700 286

Go to Now

Attachments: 344 (from Portal)

Part: 1053 (revision: 0027)

1.844

Red Quality

Ordered in: 963 / 962390

Due Dates: Build: 25/04/2015 17:14, Final: 25/04/2015 0:00

Status: Planned

Not Planned: 0/1

Planned Build Time: 25/04/2015 17:14

Bounding Box: 100 x 58 x 13 mm

Printed on: n/a

Price: n/a

Convert file Status: Done

Price Calculation Status: Aborted

Calculated Price: n/a

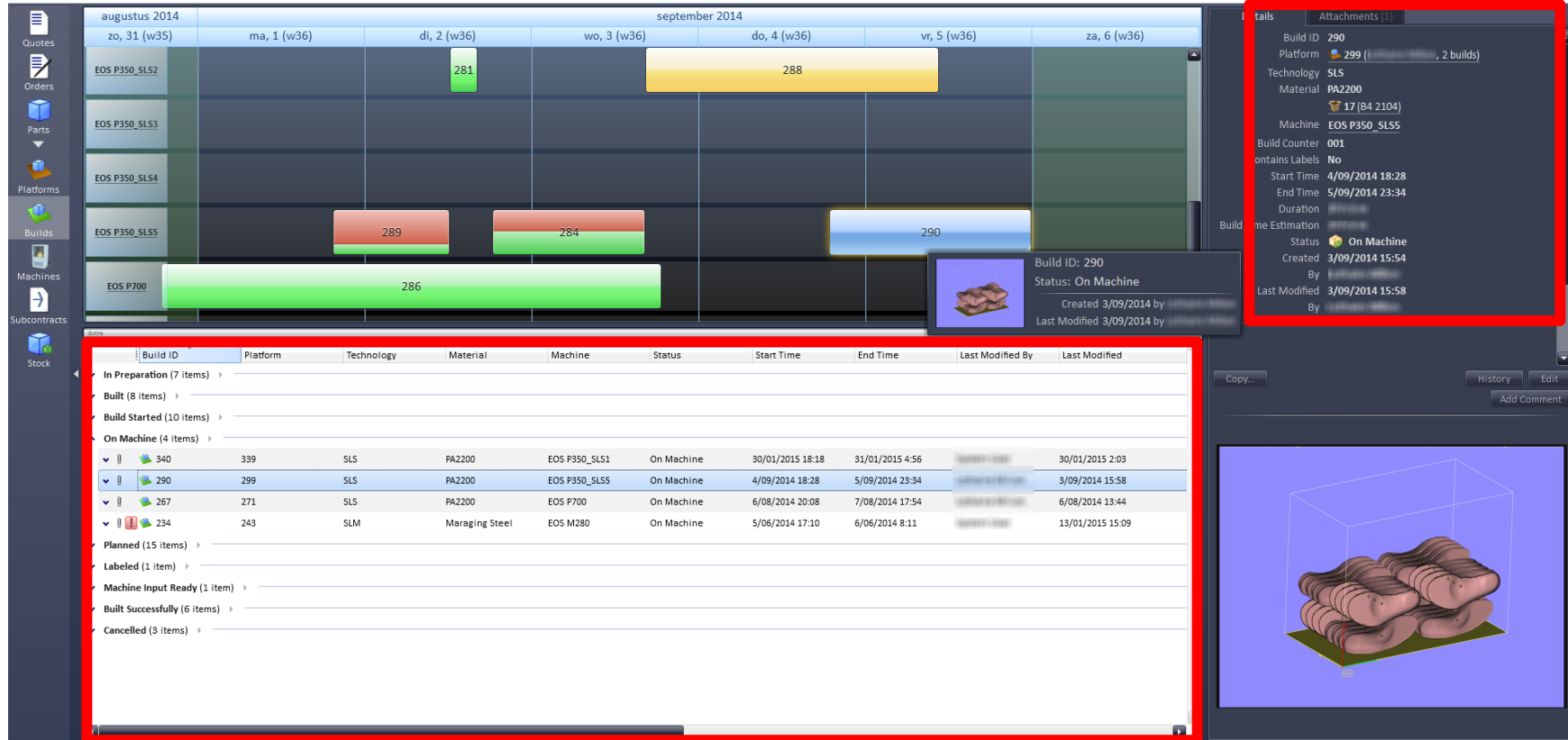
File Quality: n/a

3D Model (w36)

Printing



# Traceability



Finishing

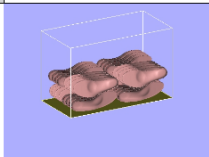


## Streamics Build #128

Materialise

**\*BLD128\***

Machine	SLS 1
Platform	170
Material	Duraform PA
Start Time	15 June 2015 14:06
End Time	16 June 2015 20:06



Comments:

Comment

Streamics™

Barcode:

Go

Logged in as: [Filippo Montanari](#) Logout

✓ Build Breakout Paint Packaging



#1995

**N Blue**

185.0 x 230.8 x 36.1 mm

✓ Complete

Can also complete  
all copies at once

✗ Scrap

Paint it red

Order **137**

From **Portal**

Part Due **16 June 2015 (today!)**

Build **128**

Machine **SLS 1**

Material **Duraform PA**

Started **15 June 2015 14:51**

Finished **16 June 2015 20:51**

Part comments

	Part	N/A		
	Customer	N/A		
	Due Date	N/A		
	File	N Blue.MatAMX		
	On This Build	<b>32 copies</b>		
	Dimensions	X(mm)	Y(mm)	Z(mm)
		185.00	230.85	36.12
Comments				



# Paula Radcliffe Races in



# we're integrating the different solutions to form a comprehensive platform

